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Malheur Refuge

Narrative Report

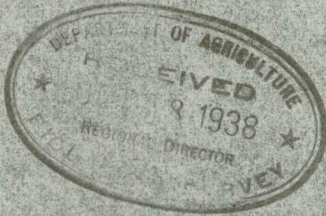
of

Malheur Refuge CCC Camps

September 1938

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

Narrative Reports



CHIEF, Bureau of Biological Survey
U. S. Department of Agriculture
Washington, D. C.

Dear Sir:

Attached hereto is the September combined Narrative Report
for the three Malheur CCC camps.

We have combined the Narrative Report since we believe a
more comprehensive record may be had of the actual progress being
made in the work program of this Refuge. It is hoped that this
action will meet with your approval.

Very truly yours,

Carl W. Jackson
C. W. Jackson, In Charge
Malheur CCC Activities

ZHD
cc: Rush
Enc.

Malheur Refuge
Burns, Oregon
October 6, 1938

<input checked="" type="checkbox"/>	RUSH	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	JEWETT	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	HUNDLEY	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	FUGATE	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	GEROW	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	BARON	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	CRISTON	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	STEVENS	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	SCHULTZ	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	EMER	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	SHEPPARD	<input checked="" type="checkbox"/>

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LALHEUR REFUGE CCC PERSONNEL

C. W. Jackson

Chief Foreman, In Charge

CENTRAL OFFICE PERSONNEL

Zeno H. Dent
Forrest A. Carpenter

Junior Clerk
Jr. Clerk-Stenographer

CAMP PERSONNEL

Edwin Anderson
Elmer Ash
Benjamin L. Beall
John H. Carter
Charles Clark
Floyd Condrey
Cecil T. Downing
James H. Draw
James S. Green
James O. Harris
Robert T. Hile
Einar Kaastad
Rhea Luper
Floyd D. Moslander
Arnold H. Nelson
Bartholin Nelson
Oscar Nelson
William Pochelu
Louis E. Redman
Joseph D. Sanders
Arthur D. Scott
Norman F. Stearns
William E. Steele
Brady Tyson
George Wilson

Squad Foreman
Foreman
Mechanic
Ass't Biological Aide
Assistant to Technician
Foreman
Straw Boss
Mechanic
Chief Foreman
Junior Foreman
Mechanic
Squad Foreman
Jr. Civil Engineer
Dragline Operator
Mechanic
Carpenter Foreman
Foreman
Blacksmith
Dragline Operator
Chief Foreman
Junior Foreman
Dragline Operator
Jr. Ass't to Technician
Blacksmith
Mechanic

ARMY PERSONNEL

Camp Five Mile

Lt. Wm. E. Davis
Lt. Allen K. Brown
Lt. Joe T. Hanna
William H. Landas

Commanding Officer
Junior Officer
Medical Officer
Educational Adviser

Camp Sod House

Lt. Elmer Blomquist
Lt. Edward S. Furray
Lt. Joe T. Hanna
Albert Tennyson

Commanding Officer
Junior Officer
Medical Officer
Educational Adviser

Camp Buena Vista

Lt. Gus E. Lehmann
Lt. Joe T. Hanna
Rayburn L. Brians

Commanding Officer
Medical Officer
Educational Adviser

MALHEUR REFUGE REGULAR PERSONNEL

John C. Scharff
Richard M. Tuller
Fred A. Anderson
H. D. Willis
George M. Benson
Clarence A. Scoter
Marcus Haines
Matt Morgan
Albert Olofson

Refuge Manager
Ass't. Refuge Manager
Assistant Clerk
Agricultural Engineer
Refuge Protector
Jr. Biologist
Range Rider
Range Rider
Range Rider

U.S. GOV. PRINTING OFFICE: 1954

INTRODUCTION

Since there are three CCC camps on the Malheur Refuge, it is believed that a more comprehensive picture of the Malheur development program may be obtained by combining the narrative reports of the three camps into one. It will be noted that this issue combines the three, and only where applicable have separate articles been prepared for the individual camps. It is hoped that this consolidated report will meet with approval.

The weather during the month of September was conducive to good working conditions. There were twenty-two clear days, three partly cloudy, and five cloudy. Only .43 of an inch of rain fell during the month. Due to this exceptionally good weather, splendid progress was made in the work program.

On September 10 it was possible to abandon the side camp which had been established in the Malheur Forest for the purpose of acquiring telephone, fence, bridge and other necessary materials. It is believed that a sufficient quantity of telephone poles, bridge materials, et cetera have been obtained to carry out the balance of the Malheur work program as contemplated at this time. In order to forestall the necessity of abandoning any materials in the forest due to early storms, fifty-five loads of fence and telephone materials were conveyed to a safe and convenient loading place near the highway. These materials will be transported to the Refuge at convenient times.

The enrollee strength of the three camps was severely decreased during the latter part of September. This was due to the fact that 265 enrollees were either discharged or transferred.

DAILY DISTRIBUTION OF ENROLLEES DURING SEPTEMBER
FIVE MILE

	DAILY TOTAL	USED ON PROJECT	REGULAR CO. OVERHEAD	DS & SPECIAL DETAILS	SICK, AWL, AWOL, ETC.
1.	185	154	23	3	5
2.	185	154	23	3	5
6.	183	153	23	3	4
7.	183	153	23	3	4
8.	183	153	23	3	4
9.	183	153	23	3	4
12.	182	153	23	3	3
13.	182	151	26	3	2
14.	182	139	26	15	2
15.	182	137	26	15	4
16.	182	149	26	3	4
19.	182	150	26	3	3
20.	182	125	26	27	4
21.	182	124	26	27	5
22.	180	148	23	3	3
23.	180	149	26	3	2
26.	154	129	21	3	1
27.	97	71	19	6	1
28.	97	71	19	6	1
29.	96	70	19	6	1
30.	96	71	19	6	0
TOTAL	3458	2757	711	174	86
AVERAGE	165	131	24	6	3

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DAILY DISTRIBUTION OF ENROLLEES DURING SEPTEMBER
SOD HOUSE

	DAILY TOTAL	USED ON PROJECT	REGULAR CO. OVERHEAD	DS & SPECIAL DETAILS	SICK, AWL, AWOL, ETC.
1.	182	149	23	10	0
2.	182	149	23	10	0
3.	181	153	23	5	0
7.	181	151	23	5	2
8.	181	152	23	5	1
9.	181	154	23	4	0
12.	181	156	23	2	0
13.	181	156	23	2	0
14.	181	156	23	2	0
15.	181	156	23	2	0
16.	181	156	23	2	0
19.	181	156	23	2	0
20.	181	156	23	2	0
21.	181	156	23	2	0
22.	181	155	23	2	1
23.	181	155	23	2	1
26.	164	59	23	2	80
27.	84	59	23	2	0
28.	84	56	23	5	0
29.	84	56	23	5	0
30.	84	56	23	5	0
TOTAL	3398	2752	483	78	85
AVERAGE	162	131	23	4	4

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DAILY DISTRIBUTION OF ENROLLEES DURING SEPTEMBER
BUENA VISTA

	DAILY TOTAL	USED ON PROJECT	REGULAR CO. OVERHEAD	DS & SPECIAL DETAILS	SICK, AWL, AWOL, ETC.
1.	171	140	23	2	6
2.	171	139	23	2	7
6.	169	138	23	2	6
7.	168	138	23	2	5
8.	168	138	23	2	5
9.	168	137	23	2	6
12.	168	138	26	2	2
13.	168	137	26	2	3
14.	168	138	26	2	2
15.	168	138	26	2	2
16.	168	138	26	2	2
19.	168	139	26	2	1
20.	168	138	26	2	2
1.	168	138	26	2	2
22.	168	138	26	2	2
23.	168	138	26	2	2
26.	147	71	22	2	52
27.	96	73	20	2	1
28.	95	72	20	2	1
29.	95	72	20	2	1
30.	95	70	20	2	3
TOTAL	3223	2568	500	42	113
AVERAGE	163	122	24	2	5

* * * * *

PERCENTAGE SUMMARY OF PROGRESS ON PROJECTS

JOB NO.	CLASS NO.	DESCRIPTION	DATE BEGAN	PER CENT COMPLETED
1232	411	Water Control Structures	Aug., 1935	45
1233	146	Wells, Incl. Pumps & Pump Houses	Sept., 1936	94
1234	143	Pipe or Tile Lines		00
1235	142	Open Ditches	Oct., 1935	30
1236	120	Frost Proof Storage Building	Aug., 1938	03
1237	120	Pump Houses	Aug., 1938	10
1238	120	Gauging Stations	Sept., 1937	33
1239	120	Frenchglen Hotel	Jan., 1938	90
1240	120	Four Car Garage	Aug., 1938	20
1241	131	Fences	May, 1935	75
1242	202	Truck Trails	May, 1935	60
1243	140	Telephone Lines	June, 1935	70
1244	104	Bridges, Vehicle	Oct., 1935	65
1245	153	Signs, Markers & Monuments	July, 1936	14
1246	403	Lining water Ways		00
1247	157	Other Structural Improvements	May, 1935	85
1248	133	Levees, Dykes and Jetties	May, 1935	85
1249	405	Excavation Rock	Oct., 1937	50
1250	404	Excavation Earth	May, 1937	70
1251	101	Bridges, Foot		00
1252	315	Quarrying	Sept., 1935	40
1253	316	Crushing Stone	May, 1935	40
1254	317	Hauling Stone	Sept., 1935	30
1255	408	Riprap or Paving, Brush	Aug., 1935	40
1256	407	Riprap or Paving, Rock	Aug., 1935	40
1257	1023	Surveys	March, 1935	50
1258	902	Food and Cover Planting	March, 1938	15
1263	1010	Marking Boundaries	June, 1936	98
1265	716	Soil Preparation	Aug., 1936	60
1266	713	Razing Undesirable Structures	May, 1935	60
1267	711	Public Camp Ground Development	June, 1937	05
1268	703	General Cleanup	May, 1935	80
1270	150	Corrals	Aug., 1937	65
1275	705	Landscaping, Undiff.	Aug., 1936	80

SUMMARY OF WORK PROJECTS FOR THE MONTH OF SEPTEMBER

WATER CONTROL STRUCTURES, Class 411

On the East Side canal two rubble masonry water control structures were completed, and the construction of two more such units were commenced.

Cement mixers, wheelbarrows, trucks and small tools were required for this project.

OPEN DITCHES, Class 142

An open ditch line leading from the old Busse ditch was surveyed to the Refuge Headquarters. A total of 4,630 lineal feet of new ditch was completed.

Hand tools such as picks, shovels, and mattocks were used exclusively on this project with the exception of two trucks used for transporting enrollees.

PUMP HOUSES, Class 120

The pump house at the Frenchglen Hotel is ten per cent complete. The concrete foundation has been poured and the frame work is well started. This pump house and the one to be constructed at the Witzel Patrol Station will be completed during the next two month period.

FOUR CAR GARAGE, Class 120

The four-car garage at the P-Ranch is rapidly taking form. The frame work is nearly completed and it is believed this project

will be finished prior to December.

FENCES, Class 131

During the month of September Camp Buena Vista partially completed six miles of fence in the Diamond Area, Krumbo Ranch, Rockford Lane and Unit Eight. The above fences will be completed during the early part of October at which time several gates will be constructed and ties placed on stays. At Camp Five Mile 420 rods of control fences were constructed.

Trucks and small tools were necessary for this project.

TRUCK TRAILS, Class 202

During the month of September, twenty-eight miles of road maintenance work was accomplished with the aid of an RD7 Caterpillar and an Adams grader on the road between the Witzel Ranch and Sod House Camp. Twelve miles of road was maintained between the Krumbo Ranch and Diamond Valley, this work consisted mainly of removing stones by hand. A "40" gasoline Caterpillar and the Galion grader were utilized to grade 1114 cubic yards of dirt which had been moved previously by a bulldozer on the new road being constructed from Sod House Lane to the Narrows. Ten miles of road between Frenchglen and the Witzel Ranch were maintained with the use of an Adams grader and "40" Cletrac. One half mile of new road was completed between the Barnes Ranch and the Diversion Dam, an RD7 Caterpillar, the Forty Cletrac, and an Adams grader was used on this project.

TELEPHONE LINES, Class 140

The ground circuit telephone line from Rockford Lane to the Witzel Ranch was replaced by a metallic circuit which required additional wire and brackets, and also braces on all curves and corners. This section of the telephone system is completed with the exception of tying the insulators. Thirty-two miles of telephone maintenance was done, and a ground cable was installed under the highway crossing near Burns, Oregon.

Trucks and hand tools were used on these projects.

VEHICLE BRIDGES, Class 104

One bridge was constructed over Bull Ditch in Sod House Lane and will be completed when the running planks have been installed. Six tamarack poles of twenty-four inch diameter were used for stringers, these having been placed on two mud sills of twelve by twelve dimensions. The stringers used in this bridge along with those to be used in the construction of additional bridges were acquired at the Ewing Springs Side Camp. Rubble abutment, consisting of 248 cubic feet, and 12" by 12" reinforced concrete sills were constructed for another bridge on Sod House Lane. Inasmuch as these bridges were extremely hazardous and were being traversed daily by enrollees going to and from work projects, it was necessary that they be rebuilt immediately.

A cement mixer was utilized for the pouring of concrete for the rubble abutments and concrete sills. Small tools were used in the general construction of the bridge.

LEVEES, DIKES & JETTIES, Class 133

The General dragline was used in the Diamond Area for the purpose of construction a dike and road. A total of 13,723 cubic yards of earth were moved. This work was somewhat retarded owing to large quantities of mud and water.

The elevating grader was operated for a few days under very favorable conditions on the north side of Tipton grain field where a levee is being constructed to protect the field from flood waters. The barrow pit along this levee will serve as an irrigation drainage ditch.

EXCAVATION OF EARTH, Class 404

The Osgood and Link-Belt draglines and an RD7 Caterpillar were operated in the construction of the East Side canal where 27,395 cubic yards of earth were excavated. Rapid progress is being made on this project.

RIPRAP, Class 407

In order to properly protect vulnerable portions of the East Side Canal from erosion, 675 square yards of riprap were installed.

SURVEYS, Class 1023

The surveying of open ditches, truck trails, fence lines, bridge locations, canals, and the preparation of maps expended a total of 180 man-days during September.

FOOD & COVER PLANTING, Class 902

There were about ninety acres of barley and wheat harvested at the Grain Camp which yielded 2700 bushels of grain, an average of thirty bushels per acre. Part of the grain was left standing for wildlife feeding purposes. The harvested grain was carefully stored at the granaries at the P-Ranch and Sod House.

(A large quantity of unthreshed grain was cut and then stacked into piles at sheltered and advantageous places throughout the Blitzen Valley area. The stacks of grain are for the unmolested use of wildlife, and it is interesting to note that upland game birds and migratory birds have already commenced the utilization of these grain stacks.)

WAREHOUSING, Class 1028

The logs and poles furnished by the Ewing Spring Side camp were all peeled and neatly piled. Salvaged materials from telephone lines, fences, bridges, et cetera were properly stored. Several hundred juniper posts which were delivered during September were graded and placed in tiers.

Axes, draw knives, and other small tools were used on this project.

EQUIPMENT REPAIR, Class 1026

One mechanic, with several enrollee assistants, has been assigned to the major overhaul of trucks on this Refuge. This arrangement is rapidly bringing about a marked improvement in the general condition of the Malheur equipment. Several trucks have been completely overhauled and twenty-two units were painted during September. One mechanic concentrates his efforts on the heavy equipment; however his work was somewhat handicapped due to lack of sufficient funds to purchase repair parts for the heavier units. The other mechanics devoted their time to maintenance of trucks by making minor and emergency repairs and performing major repairs only when time would permit. Nine hundred and ninety-five hours were consumed on this project.

PREPARATION & TRANSPORTATION OF MATERIALS, Class 1012

Preparation and transportation of materials during September played an important part in the program at the Malheur Refuge. Several score loads of poles, logs, et cetera were transported from the spike camp in the Malheur Forest to the Kado Place, and from that point were distributed to the various projects along with juniper posts which are being delivered to the Refuge under contract. In order to properly supply the three

camps with materials, automotive parts, supplies, equipment, et cetera, it was necessary to make daily trips to Burns, Oregon and then effect delivery to the various camps.

Two hundred and sixty-seven man-days were consumed at the sand washing project when 182 cubic yards of sand were prepared for future use on various projects.

Trucks; the Link-Belt sandwasher, and the conveyor belt were utilized on this project.

OTHER WILDLIFE ACTIVITIES, Class 906

Duck sickness, botulism, continued to be prevalent during September. The sickness was confined entirely to the Malheur Lake area. The number of dead birds gathered on the Lake and immediate vicinity totaled 8,873. One thousand seventy-three sick birds were picked up and transported to the duck hospital located at Sod House, and of this number 436 died of the disease after reaching the infirmary. Those that reacted favorably to treatment were liberated in due course of time, and those not already banded were banded and recorded. Enrollees were conveyed to and from the Lake area by trucks.

Since the banding pen located near Camp Buena Vista has not proved entirely satisfactory, a more desirable location was established in Unit Eight, and the latter part of September saw the commencement of a new banding pen in that area. The new pen will be completed within the very near future.

Trucks and small tools were the equipment necessary for this project.

A considerable number of antelope were observed in the Buena Vista area where they were taking advantage of the abundant feed and water supply. *Mammals*
See

GENERAL CLEAN-UP, Class 703

General clean-up involved continued efforts to enhance the general appearance of the Refuge Headquarters site, and the necessary work involved in maintaining a high standard of tidiness about the camp buildings.

NURSERIES, Class 503

The nursery project required 136 man-days for general maintenance. *According to our records the amount of nursery stock is not sufficient to require the above labor charge REG* ✓

LANDSCAPING, Class 705

Landscaping during September consisted only of maintenance work about the Refuge Headquarters, which comprises an area of one-half acre, and the small area around the C-Type House at Buena Vista.

CLEARING & CLEANING CHANNELS, Class 401

Forty-seven square yards of debris were cleared from ditches and channels in the Five Mile area. This project involved the removal of obstructing materials throughout a distance of five miles.

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EQUIPMENT

A decided improvement has been made in the condition and appearance of the trucks on this Refuge. As stated elsewhere in this issue, several trucks have been completely overhauled and repainted. Due to the necessary large number of trucks, it will require some duration of time to place all of the Malheur trucks in first-class operating condition. In order to allay repair expenses and at the same time to reduce safety hazards, all trucks have been governed at thirty miles per hour.

The majority of the heavy equipment is in fair condition; however, the Forty Diesel Cletrac needs a major overhaul. Two RD7 Caterpillars are receiving overhauls at this time and will soon be in good condition. The four draglines are now in operation, and the Osgood and Link-Belt are operating double shifts. The Osgood dragline will of necessity require a complete overhaul within the near future. Parts for this overhaul job will cost in the neighborhood of eleven hundred dollars, and it is hoped that funds will be available for this purpose during the forthcoming winter.

Due to the age of the most of the Malheur equipment, it is becoming more and more difficult to keep the equipment in adequate and safe operating condition.

SAFETY PROGRAM

General safety meetings which are attended by the entire Army and Technical Service Personnel and all enrollees have been held weekly in each of the Malheur CCC camps. These meetings are preceded by safety council meetings which are attended by the Army and Technical Service personnel, enrollees leaders, assistant leaders, and truck drivers. The purpose of the safety council is to bring to light any existing safety hazards; to select the speaker and draw up an outline of the subjects to be discussed at the general meeting. It was decided at the last council meeting at Sod House to require either a leader or an assistant leader to speak at the general meetings in addition to the regular speakers. At the general meetings all hazards are discussed in detail, and methods of eliminating such hazards are stressed.

Commencing with the month of October, safety meetings will be held twice each week, and a certain portion of each of these meetings will be devoted to reading from the CCC Safety Regulations and to discussing the subject matter therein.

Pertinent safety placards have been placed in advantageous places at the three camps in order to further increase safety consciousness. At Camp Sod House all trucks have been equipped with signs on the dashboards reading "Are you exceeding a safe speed for road and other conditions under which you are operating? When in doubt go SLOW."

EDUCATIONAL PROGRAM

The educational program progressed steadily throughout the month of September. The correspondence division especially saw great advances in that enrollees going home and wishing to finish their courses spent much time on their completion. Correspondence work has always been encouraged and has proven to be very popular and satisfactory. Many of the enrollees carry as high as three courses at one time.

In many instances equipment within the educational buildings has been improved and increased by handmade, classroom improvements which have had a tendency to enhance the interest in such programs as photography and wood work. Photography and wood-work classes are well attended and accordingly receive special attention.

Classes taught by the Technical Service are proving very popular. Auto mechanics and Diesel studies enjoys the attendance of a large majority of the enrollees. In addition to the leisure time classes, the foremen also allot fifteen minutes of each day to job training. This time is devoted to instruction in the proper use of tools and to study of the purpose and development of the job itself.

Each camp now has a building devoted entirely to the educational program. With the addition of this much needed space, it is hoped that class attendance will be increased materially and greater results will be forthcoming.

RECREATIONAL PROGRAM

Week-end recreational trips have been made frequently to Burns and to neighboring places of interest. Sports have always had their share of enthusiasts, and football is gaining in popularity as fall advances. The coming of basketball season is and shall be an important sport in the intercamp recreational program.

-----*

OTHER WILDLIFE ACTIVITIES



*If these stacks are the ones
referred to on page 14 they
are too large & close together.*

Grain which is being stacked in several locations on
Refuge for feeding birds during winter months.



Banding pen under construction at Buena Vista

FOOD & COVER PLANTING



Threshing grain to be used in feeding birds, and seed for next year's planting.



Another view of thresher in operation.

PREPARATION AND TRANSPORTATION OF MATERIALS



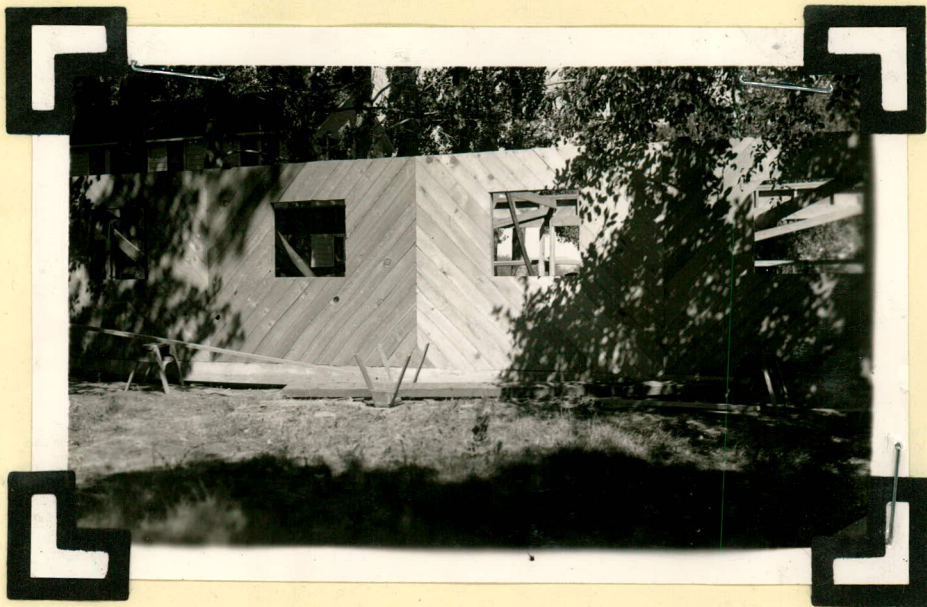
Sand washer and conveyor belt at P-Ranch for washing sand to be used in concrete work.

FOOD & COVER PLANTING



Loading bundled grain on trucks to be hauled in to thresher.

FOUR CAR GARAGE



Four stall garage under construction at P-Ranch.

GREASE RACK



Two car grease rack constructed at Camp Five Mile. Note guard rails which eliminate safety hazards.

MADE IN DENMARK
Model 1238
COUNT #4455 CC MALLORYTAG
KEE Ebelquist Espel.

LEVEES, DIKES & JETTIES



Photograph of terrain where levee will be constructed
in Unit Eight.



Elevating grader stripping top soil in preparation for
construction of levee. Same location as above picture.

OUTLINE OF WORK PROGRAM FOR NEXT TWO MONTHS PERIOD

JOB NO.

CLASS NO.

1232

WATER CONTROL STRUCTURES

411

Continuation on structures in East side canal and Boca Lake, possible beginning of control structures at Narrows for highway crossing.

1234

PIPE OR TILE LINES

143

Setting of ram and laying pipe line to and from ram at Refuge Headquarters.

1235

OPEN DITCHES

142

Completion of open ditch irrigation system for headquarters ground and pasture.

1236

FROST-PROOF STORAGE BUILDING

120

Partial completion of this building.

1237

PUMP HOUSES

120

Completion of pump house at Frenchglen Hotel and partial completion of one at Wetzel Patrol Station.

1238

GAUGING STATION

120

Starting of construction of gauging station at Bridge Creek and one on Blitzen River below Sod House Dam.

1240	<u>FOUR CAR GARAGE</u>	120
	Completion of four car garage at P Ranch.	
1241	<u>FENCES</u>	131
	Continuation of boundary fence construction at Camp Five Mile and control fences at Buena Vista and Sod House areas.	
1242	<u>TRUCK TRAILS</u>	202
	Construction on Center Patrol Road and surfacing of Sod House Narrows road. Necessary maintenance on existing roads.	
1243	<u>TELEPHONE LINES</u>	140
	Continuation of work on Refuge metallic telephone system.	
1244	<u>BRIDGES, VEHICLE</u>	104
	Reconstruction of bridges in Sod House Lane, which are in such a condition they are hazardous for trucks to cross.	
1246	<u>LINING OF WATERWAYS</u>	403
	Lining with concrete of open ditch from ram location to Refuge Headquarters.	
1247	<u>OTHER STRUCTURAL IMPROVEMENTS</u>	157
	Construction of grease rack at Buena Vista Refuge shop.	
1248	<u>LEVEES, DIKES, AND JETTIES</u>	133
	Completion of a seven mile levee in Unit 9, also four-tenths of a mile from Wetzel Patrol Station to Center Patrol Road,	

reinforcing of one mile of canal bank in Unit 8, and continuation of work on Boca Lake.

1252 QUARRYING 316

Necessary quarrying to operate rock crusher.

1253 CRUSHING STONE 316

Crushing of rock for concrete aggregate.

1257 SURVEYS 1023

Necessary surveying for work projects.

1258 FOOD AND COVER PLANTING 902

Some preparation of feeding stations will be necessary in the event of snow fall.

1259 WAREHOUSING 1028

Storing of material in storage yard.

1260 EQUIPMENT REPAIR & CONSTRUCTION 1026

Necessary maintenance of equipment and as many major overhauls as can be made.

1262 PREP. & TRANS. OF MATERIALS 1012

Washing of sand and delivering of materials from Burns, Oregon and storage yard to camp on the Refuge.

1263 MARKING BOUNDARIES 1010

Replacing of boundary notices which become damaged from time to time.

1264	<u>OTHER WILDLIFE ACTIVITIES</u>	906
	Gathering and caring for sick birds. Banding birds, completion of banding pen at Buena Vista.	
1252	<u>QUARRYING</u>	315
	Necessary quarrying to operate rock crusher.	
1253	<u>CRUSHING STONE</u>	316
	Crushing rock for concrete aggregate.	
1266	<u>RAZING UNDESIRABLE STRUCTURES</u>	713
	Razing of old fences and other undesirable structures.	
1267	<u>PUBLIC CAMP GROUND DEVELOPMENT</u>	711
	Some work will be done on public camp ground at P Ranch.	
1268	<u>GENERAL CLEANUP</u>	703
	Necessary cleanup work that will occur from time to time.	
1271	<u>DWELLINGS</u>	110
	Will consist of maintenance work on dwellings.	
1272	<u>TOOL BOXES</u>	106
	Repairing of combination tool and seat boxes used in trucks for hauling men.	
1274	<u>NURSERIES</u>	503
	Caring for trees in nursery and elimination of weeds.	

1275

LANDSCAPING, UNDIFF.

705

Maintenance of existing lawns at P-Ranch, Buena Vista
and Headquarters. Filling in with earth around Witzel Patrol
Station.

BI-MONTHLY NARRATIVE

REPORT

Prepared by

CAMP BF-2 SOD HOUSE, BURNS, OREGON

September 1, 1938

File 11/2/38

done all

*WED
10-2-38*

*10/6/38 REG
10-4-38*

*10/2/38
8-1-10-4-38*

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MALHEUR REFUGE PERSONNEL

John C. Scharff	Refuge Superintendent
Harry D. Willis	Agricultural Engineer
Fred A. Anderson	Assistant Clerk
Clarence A. Sooter	Junior Biologist
Marcus Haines	Range Rider
Matt Morgan	Range Rider
Albert Olofson	Range Rider

PERSONNEL OF MALHEUR REFUGE CCC PROGRAM

Carl W. Jackson	Chief Foreman C&M, In Charge
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CENTRAL OFFICE

Zeno H. Dent	Junior Clerk
Forrest A. Carpenter	Junior Clerk - Stenographer

CAMP SOD HOUSE SUPERVISORY

Carl W. Jackson	Chief Foreman C&M
Elmer Ash	Foreman C&M, CU-7
John H. Carter	Assistant Biological Aide
James O. Harris	Squad Foreman of Laborers
Einar Kaastad	Squad Foreman of Laborers

CAMP SOD HOUSE FACILITATING

Arnold H. Nelson	Skilled Worker, Truck Mechanic
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SOD HOUSE ARMY PERSONNEL

Lt. Elmer Blomquist	Commanding Officer
Lt. Edward S. Furray	Junior Officer
Dr. Philip Lefkin	Contract Surgeon
Albert Tennyson	Educational Advisor

INTRODUCTORY STATEMENT

During the months of July and August activities at our Ewing Springs Side Camp greatly influenced work projects at the main camp. Excellent progress has been made at the side camp. All materials have been cut and about one hundred truck loads remain to be hauled to the Refuge.

From one to three trucks and the semi-trailor have made daily trips to and from Ewing Springs with the result that a very great quantity of materials such as telephone poles, fence braces, cattle guard poles, bridge stringers, piling for bridges, dragline mat poles, and poles for other wildlife activities have been assembled at the Kado Ranch supply yard for use throughout the Refuge. This constant hauling has sometimes made it difficult to find transportation for various work crews and has also consumed a large portion of our gas and oil.

A crew of men have been employed at the supply yard throughout the past two months peeling bark from poles and piling them according to length and thickness.

Upon receipt of sufficient fence stays from the side camp all fences hitherto carried as incomplete were stayed and thus completed. With the exception of less than one-half mile all Refuge boundary fences to be constructed by this camp have been completed.

Heavy equipment made satisfactory progress throughout the

period with the exception of the last few days in August when it was found necessary to lay up some of the pieces because of a shortage of funds.

During July and August there was a total rainfall of 1.46 inches, 39 clear days, 17 partly cloudy days, and 6 cloudy days, a minimum temperature of 36 degrees and a maximum temperature of 96 degrees.

The weather having been hot, relieved only by an occasional electrical storm, ground cover throughout the work area was very dry and constituted a dangerous fire hazard. As August drew to a close all roads became very dusty. This condition was a serious handicap to the efficient operation of heavy equipment.

DAILY DISTRIBUTION OF ENROLLEES DURING JULY

	DAILY TOTAL	USED ON PROJECT	REGULAR CO. OVERHEAD	DS & SPECIAL DETAILS	SICK,AWL, AWOL,ETC.
1.	164	132	22		10
5.	128	100	22		6
6.	128	98	22		8
7.	128	103	22		3
8.	128	101	22		5
11.	128	103	22		3
12.	124	100	22		2
13.	124	100	22		2
14.	149	100	22	24	3
15.	149	124	22		3
18.	149	125	22		2
19.	149	125	22		2
20.	151	123	22	2	4
21.	187	122	23	39	3
22.	187	158	23	4	2
25.	186	153	23	4	6
26.	186	155	23	4	4
27.	186	154	23	4	5
28.	186	148	23	8	7
29.	186	150	23	8	5
TOTAL	3103	2474	447	107	85
AVERAGE	155	124	22	5	4

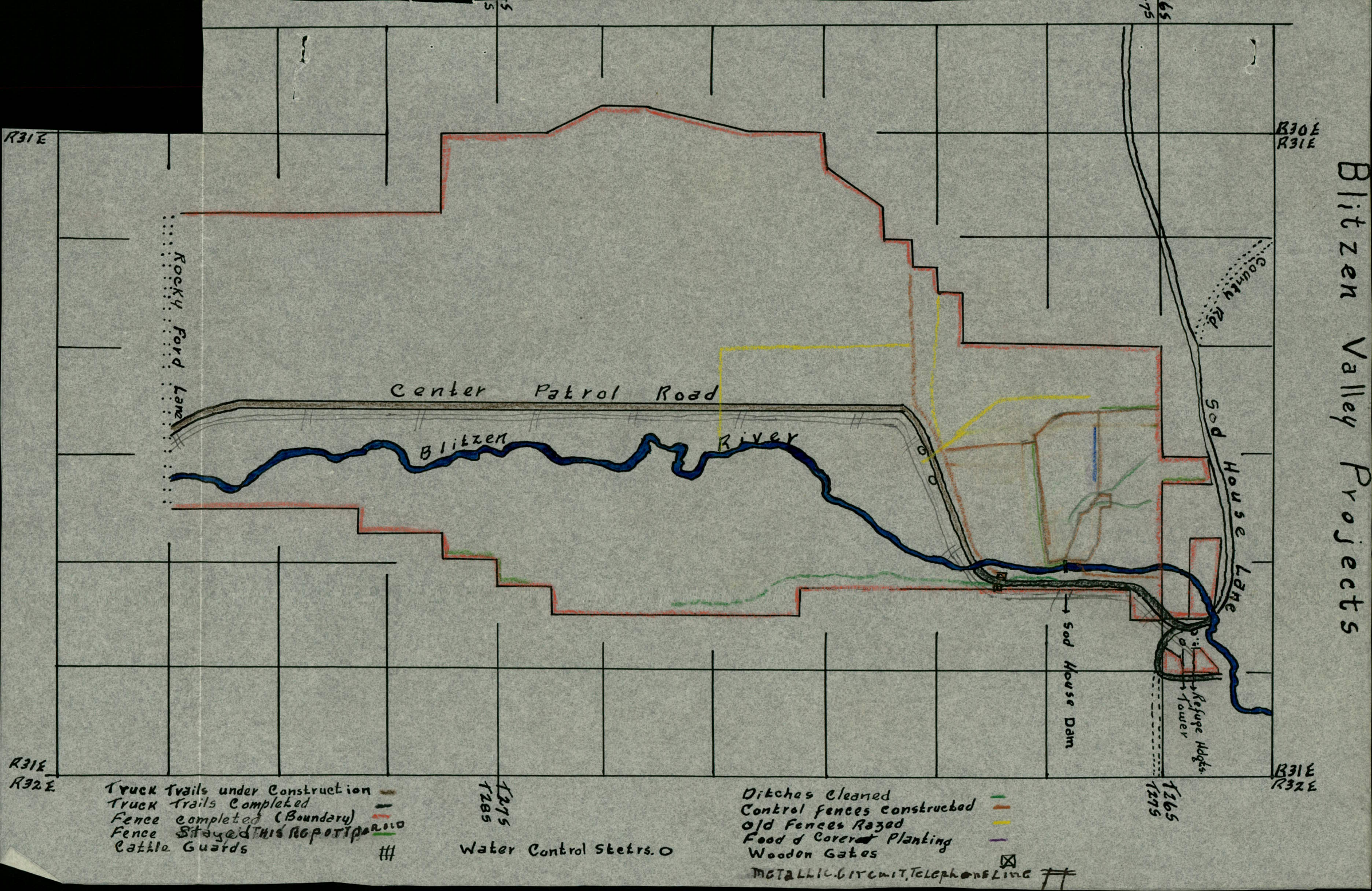
DAILY DISTRIBUTION OF ENROLLEES DURING AUGUST

	DAILY TOTAL	USED ON PROJECT	REGULAR CO. OVERHEAD	DS & SPECIAL DETAILS	SICK,AWL, AWOL,ETC.
1.	184	148	23	8	5
2.	184	141	23	8	12
3.	184	144	23	6	11
4.	184	145	23	6	10
5.	184	137	23	6	18
8.	184	149	23	5	7
9.	184	149	23	6	6
10.	184	150	23	6	5
11.	184	148	23	8	5
12.	182	148	23	6	5
15.	182	148	23	4	7
16.	182	152	23	6	1
17.	182	149	23	6	4
18.	181	149	23	4	5
19.	181	147	23	6	5
22.	182	149	23	6	4
23.	182	154	23	2	3
24.	182	155	23	2	2
25.	182	155	23	2	2
26.	182	154	23	2	3
29.	182	147	23	7	5
30.	182	156	23	3	
31.	182	145	23	12	2
TOTAL	4202	3419	529	127	127
AVERAGE	183	149	23	6	5

PERCENTAGE SUMMARY OF PROGRESS ON PROJECTS

JOB NO.	CLASS NO.	DESCRIPTION	DATE BEGAN	PER CENT COMPLETED
1232	411	Water Control Structures	Nov., 1937	5
1235	142	Water System, Open Ditches	April, 1938	20
1241	131	Fences	May, 1936	99.5
1242	202	Truck Trails	May, 1935	50
1243	140	Telephone Lines	Nov., 1937	96
1244	104	Bridges, Vehicle	May, 1935	6
1245	153	Signs, Markers, and Monuments	May, 1937	14
1247	157	Other Structural Improvements	August, 1935	100
1248	133	Levees, Dikes, and Jetties	May, 1936	23
1255	407	Riprap	April, 1938	16
1266	713	Razing Undesirable Structures	May, 1936	53
1268	703	General Clean-Up	May, 1936	85
1275	705	Landscaping, Undiff.	May, 1937	84
	149	Cattle Guards	June, 1936	98
1258	902	Food and Cover Planting	March, 1938	15
1265	716	Soil Preparation	April, 1938	75
1263	1010	Marking Boundaries	May, 1936	60
	715	Seeding and Sodding	June, 1937	40

Blitzen Valley Projects



Truck Trails under Construction
 Truck Trails Completed
 Fence completed (Boundary)
 Fence Stayed This Report
 Cattle Guards

1275
 1265
 Water Control Sketrs. O

Ditches Cleaned
 Control fences constructed
 Old Fences Razed
 Food & Cover Planting
 Wooden Gates

METALLIC CIRCUIT, TELEPHONE LINE

SUMMARY OF WORK PROJECTS FOR PAST TWO MONTHS PERIOD

FENCES

During this period 4,734 rods of fence were completed. Enough material was cut to make 100,000 fence stays, but only about 30,000 stays have been split. One thousand eighty brace poles, 4,000 rock jack posts and 635 corral poles have been cut. These materials are to be used by all three camps on the Refuge. Trucks and hand tools were used on this project.

TRUCK TRAILS

This project was confined to work on the new road from the west end of Sod House Lane to Narrows, Oregon. The grade was raised throughout the length of road, and sub-grade was 90 per cent completed. It will be necessary to wait for a rain to complete the sub-grade.

Good yardage was made for time put in by equipment. A total yardage of 63,540 cubic yards was moved by elevating grader and bulldozers.

A total of 1,604 square rods of sagebrush was cleared for right-of-way.

Equipment used on truck trail construction was one elevating grader which was pulled by 80 Cletrac, one RD-7 Caterpillar with trailbuilder attachment, one 40 Caterpillar with bulldozer attachment, one Galion grader, one dump truck used for servicing equipment, stake trucks to haul work crews, and hand tools used

in clearing right-of-way.

TELEPHONE LINES

During July and August four miles of metallic circuit telephone line was completed paralleling new highway from west end of Sod House Lane to Narrows, Oregon. One thousand telephone poles and 366 guy wire guards were cut at the side camp.

Trucks and hand tools were used.

VEHICLE BRIDGES

One bridge was constructed over irrigation canal at Sod House Ranch. Five twenty-four inch logs were used as stringers with four by twelve fir planks as decking. This made a very substantial bridge eighteen feet by thirty feet.

Stringers were cut at the side camp. A 40 Caterpillar, trucks, and hand tools were used in construction of the bridge.

SIGNS, MARKERS, AND MONUMENTS

Work on this project consisted of cutting materials for Refuge signs, mostly done at side camp.

Trucks and hand tools were used.

OTHER STRUCTURAL IMPROVEMENTS

In order to facilitate loading and unloading of heavy water tank used in pouring concrete, a strong platform was constructed. This was built by use of hand tools.

LEVEES, DIKES, AND JETTIES

Four hundred poles were cut at the side camp for use as drag line mats at different places on the Refuge. Forty-five cubic yards of dirt were removed from old ditches in preparation of ditch for conveying water to Refuge Headquarters.

Trucks and hand tools were used.

WAREHOUSING

This has been a major project during the last two months. The work included unloading material, peeling poles, and piling all material in their respective places. Also frequently trucks were loaded with material requisitioned by other camps on this Refuge.

EQUIPMENT REPAIR OR CONSTRUCTION

This proved to be one of the major projects of this camp during the past period. Due to the age of our equipment frequent repairs were found necessary. Several overhaul jobs were completed.

PREPARATION AND TRANSPORTATION OF MATERIALS

This project consisted chiefly of hauling material from Burns, Oregon and Ewing Spring Side Camp to the Kado supply yard and other places on the Refuge.

Equipment used on this project was trucks and one 22 Caterpillar tractor.

RAZING UNDESIRABLE STRUCTURES

Five miles of telephone line and poles were taken up and salvaged as a new metallic circuit was put in following the new road now under construction from Sod House Lane to Narrows, Oregon.

Old fence razed and salvaged amounted to a total of 470 rods, a distance of 80 rods was razed along Kado lane and 390 rods at Swan Lake Field.

GENERAL CLEANUP

Nine and one-half acres of land near the Refuge Headquarters grounds were cleaned of weeds.

A truck was used to haul the weeds away. Hand tools such as rakes and mattocks were chiefly employed.

CONSTRUCTION OF TOOL BOXES

Two combination boxes for tools and seats to be used on stake trucks were constructed.

Hand tools were used in construction.

FIGHTING FOREST FIRES

A total of 19 man-days was expended on fires on the Malheur National Forest. The men used were taken from the Ewing Springs Side Camp.

Tools were furnished by the Malheur Forest.

LANDSCAPING

Landscaping consisted of such general maintenance work at Refuge Headquarters as irrigating and care of lawns, trees, and shrubs.

A truck was used occasionally to haul off grass cuttings and weeds. Lawn mowers, hand tools and a gasoline engine and pump for irrigating were used.

CATTLE GUARDS

Five hundred cattle guard poles were cut at the side camp. No cattle guards were under construction.

Trucks and hand tools were used.

EQUIPMENT

Good progress has been made in repairing equipment, considering the mechanical help available. Due to age of trucks it is getting to a point where the repairs and help required to keep them in operation is a large item.

Three stake body trucks have had complete overhaul and a paint job. One pickup was put in good condition. Engines on two Dodge dumps were rebored and are being assembled.

The balance of trucks will be given major overhauls and repainted as fast as money is available.

The heavy equipment in this camp is all in operating condition.

SAFETY

No lost time accidents occurred during the months of July and August. Seven general safety meetings in which the entire camp participated were held during this period. A safety council composed of Army and Technical supervisory personnel and all enrollee leaders and assistant leaders met each week prior to the general meeting. Here safety conditions were discussed and a subject and speaker for the general meeting decided upon.

Nine general safety meetings were held at the Ewing Springs Side Camp. These were held each Friday night with the foreman in charge of camp as chairman.

An intensive program to eliminate all safety hazards in camp and on projects has been carried on. Guard rails have been placed on all elevated grease and wash racks, all moving parts of machinery have been guarded and many less obvious hazards have been remedied. In the field enrollees were given constant instructions in the proper and safe use of hand tools. A drive safely campaign was vigorously carried out.

EDUCATION

Upon the removal by Company Surgeon on July 6th of all restrictions of group gatherings imposed because of severe mump epidemic the educational program was set in operation. Due to disorganization caused by the long enforced lay-off, the program started somewhat slowly in early July but increased momentum each week and in August offered a fairly well rounded training schedule.

Enrollees received academic training in arithmetic, reading, spelling, civics, and general science; vocational training in carpentry, compass reading, auto mechanics, stake reading, traffic laws, typewriting and foreman training; job training in fence construction, telephone line construction, truck driving, landscaping, timber work, and heavy equipment operation; informal training in photography, leather craft, etiquette and nature study; as well as training in first aid.

An overnight field trip was made by the nature study class to the timberline of nearby Steen's Mountains in order to study insects, birds and mammals that live at an altitude of 8,000 feet.



Type of jack used
and filled with rock
to hold post in place
for long fence span
across river.

Semi-trailor with
load of telephone
poles from side
camp.





RD-7 and 40 Caterpillar bulldozers making fill on Sod House Narrows road.

Another view of tractors on the same fill.





Section of boundary
fence completed.

View of boundary
fence at river cross-
ing; note jacks on
each side of river to
hold posts in place.



OUTLINE OF WORK PROGRAM FOR NEXT 2 MONTHS PERIOD

WATER CONTROL STRUCTURES

Work on structures along center patrol road will be continued when sub-grade on center patrol road is completed.

WATER SYSTEM, OPEN DITCHES

Will consist of setting ram and construction of feed ditch for ram, possible lining with concrete of 1300 feet of ditch from ram to headquarters as soil is very porous.

CLEARING AND CLEANING CHANNELS

Removing debris at fence and bridge crossings and natural barriers.

FENCES

Will consist principally of maintenance, repainting of eleven wooden gates.

TRUCK TRAILS

Surfacing with gravel on 4 miles of Sod House Narrows road, grading and shaping up of center patrol road for graveling. Considerable maintenance will be necessary as existing roads are becoming very rough.

TELEPHONE LINES

Necessary maintenance.

CATTLE GUARDS

Maintenance on two cattle guards at camp entrance.

WAREHOUSING

Care of storage yard and storing of materials as they arrive.

EQUIPMENT REPAIR OR CONSTRUCTION

Necessary maintenance and as many major repairs as can be made.

PREPARATION AND TRANSPORTATION OF MATERIALS

Hauling of materials from side camp to storage yard at Sod House and delivering materials to projects.

GENERAL CLEANUP

This item to cover miscellaneous jobs of clean-up that occur from time to time.

CONSTRUCTION OF TOOL BOXES

Some maintenance will be necessary on tool boxes.

LANDSCAPING, UNDIFF.

Maintenance, consists of irrigating and care of lawns at headquarters.

